## [METHOD OF TREATING DIESEL EXHAUST GASES]

## **Abstract of Disclosure**

A diesel exhaust treatment system and method of oxidizing NO to NO  $_2$  at low temperatures are provided. The system utilizes a platinum catalyst on a zirconia-stabilized silica support which oxidizes NO in the exhaust gas to NO  $_2$  and uses the NO  $_2$  in an amount sufficient to oxidize particulate trapped on a particulate filter. The catalyst is preferably pre-treated at a temperature of between about 500 to 650 °C in a NO-oxygen-nitrogen mixture to increase conversion at low temperatures. The catalyst preferably includes an additional oxide component selected from the group consisting of TiO  $_2$  , P  $_2$  O  $_3$  , WO  $_3$  , B  $_2$  O  $_3$  , and Al  $_2$  O  $_3$  or a heteropolyacid component to further increase activity at low temperatures or to decrease platinum loading at the same level of performance.

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